

## ABSTRACT

A method allowing effective avoid asynchronous interference that occurs in the area where different cells overlap is disclosed. In a TDMA system, a base station desirous of using a channel transmits an interference check signal at a slot corresponding to each of transmission and reception timings on the channel to check whether asynchronous interference occurs on the channel. A mobile station determines whether asynchronous interference occurs on the channel, based on a plurality of error packet reception results on the channel. When asynchronous interference occurs, the mobile station transmits an interference notification signal to the base station. The base station, when receiving an error packet or the interference notification signal, determines that asynchronous interference occurs, and selects another channel to avoid asynchronous interference.